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hPARK2	1	1	10	MIVFVRFNS	110	HGF PVEUDSD	20	TSIFQLKEVV	30	AKRQGVPA	40	LRVIFAGKEL	50
mPARK2				Y		L							
hPARK2	51	51	60	RNDWTVQNC	60	LDQQSIVHIV	70	QRPWRKG	80	NATGGDDP	90	AAGGCERE	100
mPARK2				P.HL		E		R.RSH		T	S.E.QS	TSE.SIW	SR
hPARK2	101	101	110	SLTRVDLSS	110	VLPGDSVGLA	120	VILHTDSRKD	130	SPPAGSPAGR	140	SIYNSFYVYC	150
mPARK2				H		T.V		D.KR.		EA.RG.V-K	PT	150	
hPARK2	151	151	160	KGP CORVQPG	160	KLRVQCS	170	QATLTLTQGP	180	SCWDDVLIPN	190	RMSGECQSPH	200
mPARK2				RK		G.K		A.		...	...	D	200
hPARK2	201	201	210	CPGTSAEFF	210	KCGAHPTSDK	220	ETPVVALHLIA	230	TNSRNITC	240	CTDVRSPVLV	250
mPARK2				R		D.S		N.T		S.R.S.P.A		...	250
hPARK2	251	251	260	FOCNSRHWIC	260	LDCEFHLYCVT	270	RLNDRQFVHD	280	PQLGYSLPCV	290	AGCPNSL	300
mPARK2				H		...		A.		...	...	LIKE	300
hPARK2	301	301	310	LHHFRILGEE	310	QYNRYQQYGA	320	EECVLQMGGV	330	LCPRPGCGAG	340	LLPEPDQRKV	350
mPARK2				T		T		...		...	...	QG	350
hPARK2	351	351	360	TCEGGNGLGC	360	GFAFCRECKE	370	AYHEGEC	380	FEASGTTQA	390	YRVDERAAEQ	400
mPARK2				V		D.		D.DSL		L.P.A.S.		K	400
hPARK2	401	401	410	ARWEAAASKET	410	IKKTTKPCPR	420	CHVPVEKNGG	430	CMHMKCPQPQ	440	CRILEWCWNCG	450
mPARK2				E		*		N.I.		450
hPARK2	451	451	460	CEWNRYCMGD	460	HWFDV*	470	500
mPARK2				A		*				500

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hPARK2	1	TCCGG-----	20	GA-----GA	30	-----TT-----	40	CCAGGAGAC-	50
mPark2	1	CT.A.CGAGG	60	GGAAAGGGG-----	70	GGCCATG-----	80	.TGAC-----AA	50
hPARK2	51	CGCTGGTGGG	110	AGGGCGGG-C-----	120	TGGGCCCGCT-----	130	.G-----AG-----	100
mPark2	51	.....T.....G	110	.....T.....G	120	.....G-----AG-----	130	.....G.A-----	100
hPARK2	101	GGCCCGCAGC	160	CGCCACCTAC-----	170	CCAGTGACCA-----	180	.....G-----	150
mPark2	101	.A.....A	160	.A.....CG	170	.....G-----	190	.....	150 Exon1/2
hPARK2	151	AACTCCAGCC	210	ATGGTTCCC-----	220	AGTGAGGTCC-----	230	GTATCTGACA-----	200
mPark2	151	.....T.....C	210	.....T.....C	220	.....T.....C	230	.....A-----	200
hPARK2	201	CCAGCTCAAG	260	GAGGTGGTTG-----	270	AAGGAGCTGA-----	280	GGGGTTCCG-----	250
mPark2	201	G.....A	260	.....T.....C	270	.....T.....C	280	.....A-----	250
hPARK2	251	TGGGTGTGAT	310	TTTCGCAAGGG-----	320	GGATGACTG-----	330	GGAAATGACTG-----	300
mPark2	251	.....C.....A	310	.....A.....A	320	.....A.....A	330	.....G.....T	300 Exon2/3
hPARK2	301	AATTTGTGACC	360	TGGATCAGCA-----	370	GAGCATTGTT-----	380	CACATTGTC-----	350
mPark2	301	.....C.....A	360	.....A.....A	370	.....T.....A	380	.....A.....A	350
hPARK2	351	GAGAAAAGGT	410	CAAGAAATGA-----	420	ATGCAACTGG-----	430	AGGGACGAC-----	400
mPark2	351	.....G.....G	410	.....G.....G	420	.....T.....T	430	.....G.....A	400
hPARK2	401	CGGGGGGAGG	460	CTGTGAGGG-----	470	GAGCCCCAGA-----	480	GCTGACTCG-----	450
mPark2	401	.....CT.....A	460	.....CT.....A	470	.....T.....AG	480	.....A.....A	450
hPARK2	451	AGCAGCTCAG	510	TCCTCCAGG-----	520	AGACTCTGTG-----	530	GGGCTGGCTG-----	500
mPark2	451	.....CATA.....C	510	.....G.....G	520	.....G.....T	530	.....G.....G	500
hPARK2	501	CACTGACAGC	560	AGGAAGGACT-----	570	CACCCACC-----	580	TGGAAAGTCCA-----	550
mPark2	501	.....A.....T	560	.....A.....G	570	.....T.....GA	580	.....F-----A.C	550 Exon3/4
hPARK2	551	CAATCTACAA	610	CAGCTTTAT-----	620	GTGTATTGCA-----	630	AGGGCCCTG-----	600
mPark2	551	.....C.....C	610	.....T.....G	620	.....C.....C	630	.....C.....C	600
hPARK2	601	CAGCCGGGAA	660	AACTCAGGGT-----	670	ACAGTGCAGC-----	680	ACCTGCAGC-----	650
mPark2	601	.....T.....G	660	.....C.....A	670	.....T.....TG	680	.....AA.....A	650
hPARK2	651	CACCTTGACC	710	CAQGGTCCAT-----	720	CTTGCTGGGA-----	730	C-----	700 Exon4/5
mPark2	651	.....G.....C	710	.....G.....C	720	.....T.....C	730	.....C.....C	700
hPARK2	701	GGATGAGTGG	760	TGAATGCCAA-----	770	TCCCCACACT-----	780	GCCTGGGAC-----	750 Exon5/6
mPark2	701	.....G.....G	760	.....G.....G	770	.....G.....T	780	.....A.....T	750
hPARK2	751	TTTTTCTTTA	800	AATGTGGAGC-----	810	ACACCCACC-----	820	TCTGACAAGG-----	800
mPark2	751A.....A	800A.....A	810A.....A	820C.....G	800

Fig 2

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hPARK2	801	AGCTTTGCAC	810	CAAATAGGCAA	820	GAACATAGTCG	830	840	850
mPark2	801	...A...	860	...A.C.	870	...C.G.	880	890	850
hPARK2	851	GCACAGACGT	851	CAGGCCCC	860	TCCCTGGTT	870	900	900
mPark2	851	...T...	910	...T...	920	...C.	930	940	Exon6/7
hPARK2	901	GTGATTTGGCT	901	TAGACTGTT	920	CCACTTATAC	930	950	900
mPark2	901	...C.T.	960	...G.	970	...G.T	980	990	950
hPARK2	951	TCGGCAGTTT	951	GTTCACGACC	960	CTCAACTGG	970	1000	950
mPark2	951	...C...	1010	...C...	1020	...TG	1030	1040	1000
hPARK2	1001	CTGGCTGTCC	1001	CAACTCCTTG	1060	GTACCAACCG	1070	1090	Exon7/8
mPark2	1001	...C.	1060	...C.	1070	...CTA	1080	1100	1000
hPARK2	1051	GGAGGAGGC	1051	AGTACAAACCG	1110	GTACCAACCG	1120	1140	1050
mPark2	1051	...G...	1110	...A...	1160	...T.C.	1170	1190	1100
hPARK2	1101	CCTGCAGATG	1101	GGGGCGGT	1110	TATGCCCG	1130	1150	Exon8/9
mPark2	1101	...G...	1110	...A...	1160	...A.G.	1180	1200	1100
hPARK2	1151	TGCTGCCGGA	1151	GCCTGACCA	1151	AGGAAAGTCA	1151	1150	1050
mPark2	1151	...A.	1151	...A.	1210	...T.A.G.	1220	1240	1050
hPARK2	1201	CTGGGCTGT	1201	GGTTTGCTT	1260	CTGCCGGAA	1270	1290	1150
mPark2	1201	...C...	1260	...C...	1310	...TT.	1320	1340	1150
hPARK2	1251	AGGGAGTGC	1251	AGTGCCTAT	1251	TTGAAGCTC	1260	1280	1250
mPark2	1251	...T...	1251	...T...	1310	...GACT.AC.GC	1320	1340	1250
hPARK2	1301	ACAGAGTCGA	1301	TGAAAGAGCC	1301	GGCGGAGCAGG	1301	1320	Exon9/10
mPark2	1301	...G...	1301	...G...	1360	...CA.	1370	1390	1250
hPARK2	1351	AAAAGAACCA	1351	TCAAGAAAC	1360	CACCAAGCCC	1370	1390	Exon10/11
mPark2	1351	...G...	1351	...G...	1410	...G.	1420	1440	1300
hPARK2	1401	AGTGGAAAAA	1401	AATGGAGGCT	1401	GCATGCACAT	1410	1450	Exon11/12
mPark2	1401	...A.T.	1401	...A.T.	1460	...C.	1470	1490	1450
hPARK2	1451	GCAGGGCTCGA	1451	GTGGGTCTGG	1451	AACTGTTGGCT	1451	1480	1500
mPark2	1451	...A.	1451	...G.	1510	...T.	1520	1540	1500
hPARK2	1501	ATGGGGGACC	1501	ACTGGTTCGA	1501	CGTGTAGCCA	1501	1530	1550
mPark2	1501	...A...	1501	...A...	1560	...T.	1570	1590	1550
hPARK2	1551	GC-CACATCC	1551	TGGGGAGCA	1551	TACCCAG--T	1551	1580	1600
mPark2	1551	A.G...	1551	CAA...	1560	GTCTTACCTTC	1560	1590	1600

Fig 2

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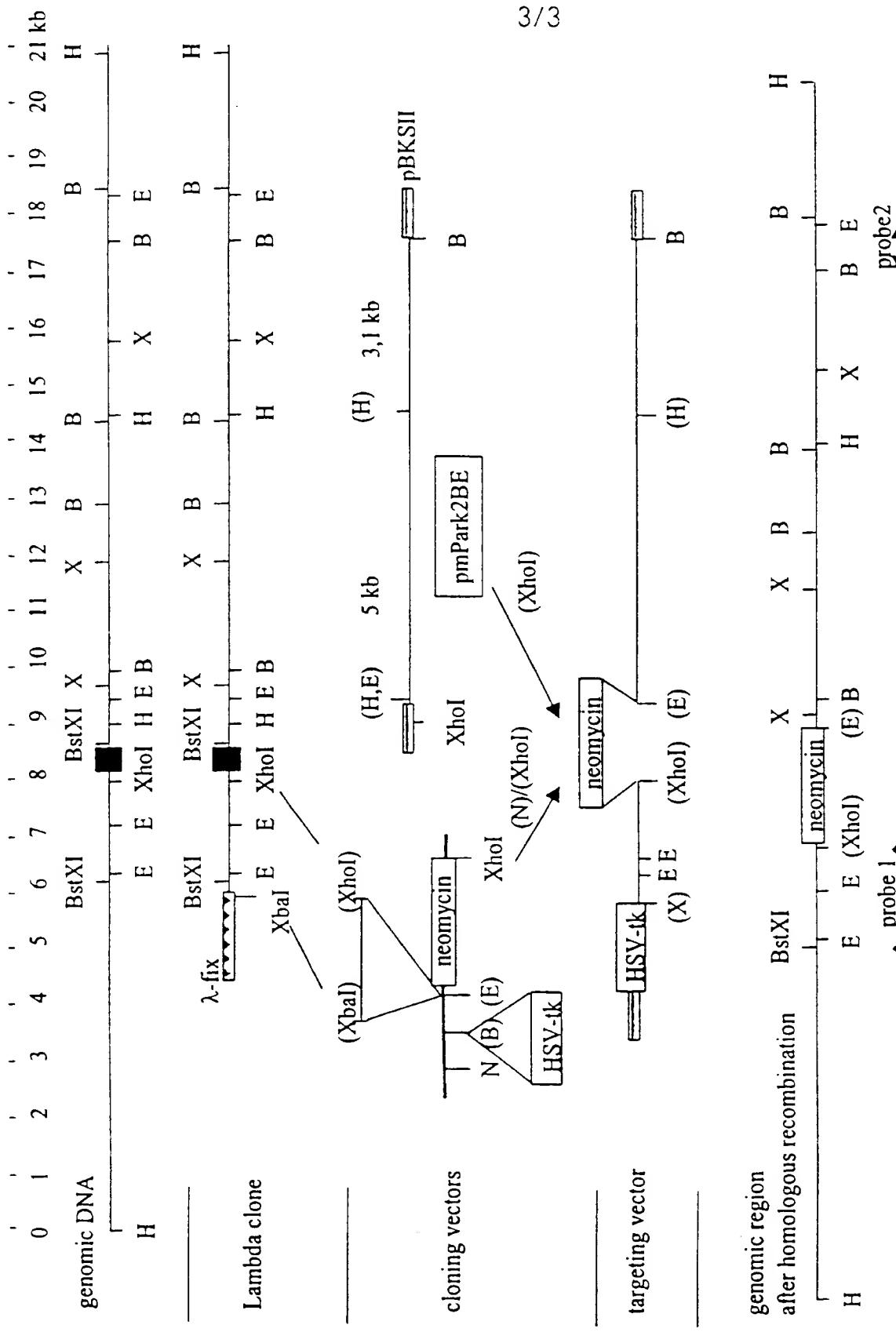


Fig 3